

# IARPA HAYSTAC Lightning Talk Kitware, Inc.

Website: <https://kitware.com/expertise>

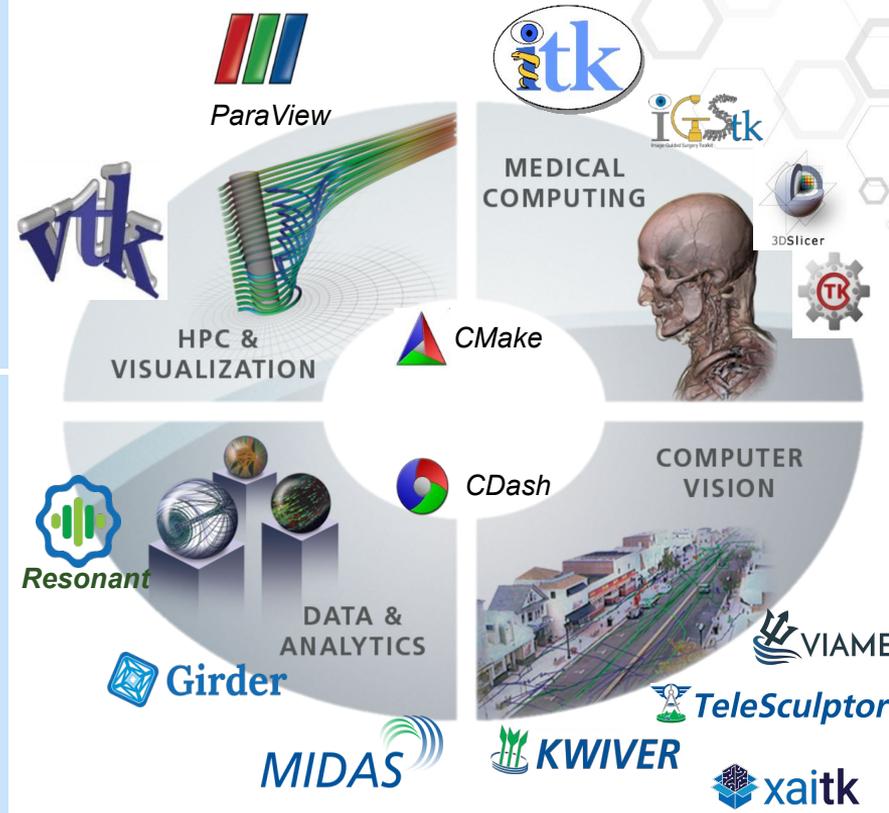
**Dr. Anthony Hoogs**  
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**Kitware Computer Vision Team**

- Open source software R&D: algorithms & applications, image & data analysis, training data, integration, and testing
- 202 employees: 1/3 PhD, 1/3 masters
- Offices: Albany, NY; Chapel Hill, NC; Santa Fe, NM; Arlington, VA, Minneapolis, MN; Lyon, France
- Secure facility: Albany, NY; 44+ cleared personnel SCI clearances

### Commercial and Government Business Models

- **Commercial: 10% of Revenue**
  - Efficient commercial contract process
  - Commercial business models to suit commercial business needs
- **Government: 90% of Revenue**
  - Efficient government contract process
  - All government-funded software is provided with unlimited rights to the government
  - Released as open source when permitted



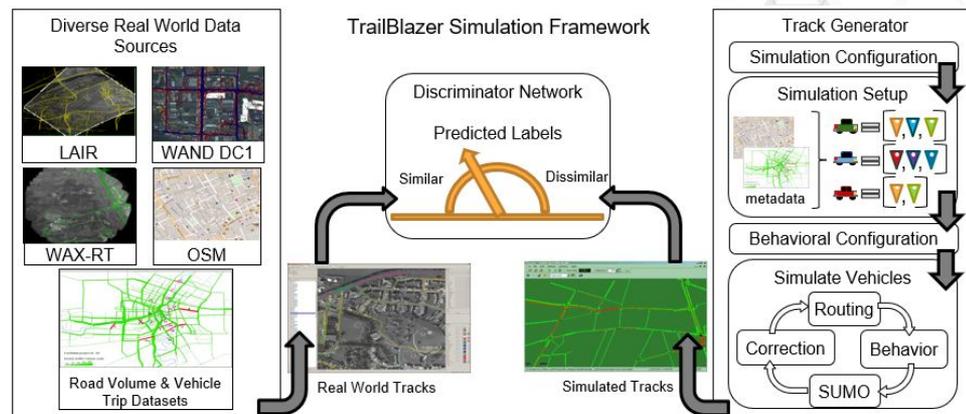
100% Employee Owned

## Proven Relevant Capabilities

- Established leader in computer vision and ML R&D for IC and military applications, including video and other MOVINT data.
- Significant capabilities in simulating vehicular traffic to support the development of algorithms for anomaly detection, tracking, activity detection, threat detection and patterns of life modeling.
- Extensive experience with detecting anomalies, activities and behaviors of humans and moving objects in many temporal and spatial resolutions & domains.
- Incorporate ethical considerations into all aspects of system design, development, execution, and data management in past and current programs. This aligns well with HAYSTAC privacy issues.
- Large-scale collaborations with universities including integration and hardening for blind program evaluations and technology transition to operational agencies.



## Vehicular Track Simulation and Anomaly Detection



## Teaming Pursuits: Why work with Kitware?

- Extensive CV and ML expertise; 30+ PhDs, 14 years, \$70M+ in CV/ML R&D contracts from DARPA, IARPA, NGA, AFRL, IC, NOAA, ARL, ONR
- Prime on IARPA SMART, BRIAR, DIVA, CORE3D; DARPA URSA, Semafor, Medifor, SAIL-ON. Sub on XAI, LwLL, PANDA,
- Extensive experience in dataset generation (real & simulated), curation and dissemination, with full HSR protocols and validated privacy protection
- All provided with unlimited rights to the Government.